1985 INDEX

Aflatoxin-no one solution, Nov/Dec-12 Alfalfa hay seen in new light, Sept-6 Antibiotic, test for in milk, May-5 Applicator for weed control (pat.), Apr-16 Aspergillus flavus toxin a continuing problem Nov/Dec-12 Aspergillus glaucus slows growth of toxin-producing molds, Nov/Dec-5

Bacterial protein extraction process (pat.), Nov/Dec-16 Baking quality of unbleached wheat flour (pat.), Mar-16

Bean rust, control with resistant varieties. Oct-15

Beans, improved by steam blanching, May-4 Beehives, solar heated, Feb-13 Bees

healthier through clean hives, May-4 wood preservers for hives, June/July-15 Beetle resistant to malathion, Mar-4 Biocontrol

bugs fight bugs, Feb-8 of Colorado potato beetle, Jan-4 of mosquitoes with microcrustaceans, Apr-4

research in a pilotless miniplane, Jan-8 for universal root pathogens (pat.), Jan-16

Blood

test for trichinosis (pat.), Aug-16 white cells collected from animals June/July-16

Blueberry disease test-DAPI, Mar-4 Bluetongue vaccine for sheep, cattle, June/July-10

Boll weevil trap improvements (pat.), Oct-16 Bran spaghetti, May-4 Brassinosteroids enhance crop growth (pat.),

Apr-16 Broiler house temperature regulation, May-15

Calcium means stronger pears and teeth, Aug-4

Carrot flavor affected by genetics and storage, Sept 4

Cell fusion of potatoes, Mar-6 Cercospora leaf spot disease advisories for peanut growers, June/July-8

Chalkbrood fungus reduced when bees clean hives quickly, May-4

Cheesemaking waste to commercial lactulose sugar (pat.), Jan-16 Chewing sounds of insects in grapefruit, wheat, Apr-13

Chisel plowing wind erosion control, Feb-7 Cholesterol reduced by barley, oats, Jan-10 Coccidiosis vaccine, major step toward,

Codling moth reproduction cycles, Apr-4

Computer

regulates poultry house, May-15 uses logic to help nonexperts, Aug-8 Computerized assay for folic acid, Apr-5 Conservation tillage, paired rows up yields, Apr-11

Copper: coronary heart disease link?, Oct-6 Corn earworms, fall armyworms controlled by Archytas marmoratus, Oct-12 Corn resistant to European cornborer, Feb-10

Cornstalks stronger now, Oct-4

fibers cleaned better (pat.), May-16 ginning more efficient in future, Sept-15 plant from Mexico drought-tolerant, Sept-5

Cottonseed, high-protein flour from (pat.),

Cows protected from mastitis by improved plastic loop, Aug-13

Coyote, attracting with synthetic scents (pat.), May-16

Crops used to remove emulsified oil from water (pat.), Sept-16

Crude vaccine for cattle grub control, Aug-5

Drone aircraft aids research in pecan orchards, Jan-8

Egg

cracks detected by staining, Jan-15 electronic, Jan-15

Enzymes

control plant hormones, Nov/Dec-4 turn beef tallow to cocoa butter. Nov/Dec-5

Erosion

prevented in Yazoo Basin by low-drop structures, Aug-14 research by National Soils Lab, Mar-8

Ethylene, flushing carrots with air to remove,

Expert systems, EXSRM, EXSPUR, Aug-8 Extrusion process halts breakdown of rice oil, Sept-14

Fats and oils extracted with CO2 (pat.),

Fenoxycarb protects stored grain, Oct-4 Fire ants prey on mosquitoes, Mar-5 Flowers preserved by aminooxyacetic acid (AOAA), Sept-4

Fluorescent stain for blueberry disease. Mar-4

Fly

little-known, for biocontrol of corn earworms, fall armyworms, Oct-12 sterile for screwworm control, Sept-12 Folic acid excess may lower zinc absorption in humans, Apr-5

Forage plant rids soil of sodium, Mar-5

Forum

ARS Helped Pioneer Biotechnology Research, Apr-2 Forage Legumes-Untapped Resource,

Feb-2 Hay Quality Is Mostly Opinion Without Tests. Sept-2

Here's to Excellence, Jan-2 Infant Mortality: One Result of a

Deficient Diet, Oct-2 New Way To Attack Complex Problems. Aug-2

Poultry and World Nutrition, May-2 Research Pays Its Way, Mar-2 Research To Save Lives, Nov/Dec-2

Values That Work, June/July-2 Fruit fly mass-production technique (pat.), June/July-16

Fungus

Entomophaga aulicae kills gypsy moths, June/July-12 kills nightshade, not tomatoes (pat.),

Sept-16

G

Gene sought in red flour beetle for pesticide resistance, Mar-4

Genetic engineers study crop growth control, Nov/Dec-4 Grain

dust trapped by soybean oil, Nov/Dec-6 key to reducing blood cholesterol, Jan-10

protection with insect growth regulator, Oct-4

Group size affects pigs' sexuality, Sept-11 Grubs, crude vaccine for cattle, Aug-5 Guard dogs get good grades, Jan-6 Gypsy moth-killing fungus from Japan, June/July-12

Hamburger, detecting potential spoilage by lactic acid (pat.), Oct-16 Heart disease risk factor, copper, Oct-6 Herbicide applicator, dripless, no-waste (pat.), Sept-16 Herbicide-coated seeds (pat.), Nov/Dec-16 Hessian fly, war against, May-10 High-protein rice flour from enzyme treatment, Mar-14 Hormones, wheat growth, Jan-7 Hydrochilling keeps meat fresh longer,

June/July-5

Insect

chewing sounds, Apr-13 rearing, Feb-8 sex pheromone mimics (pat.), Aug-16 Insecticides detected in honey, wax, and bees, May-5 Integrated reproduction management (IRM),

Apr-6

1985 INDEX

Aflatoxin-no one solution, Nov/Dec-12 Alfalfa hay seen in new light, Sept-6 Antibiotic, test for in milk, May-5 Applicator for weed control (pat.), Apr-16 Aspergillus flavus toxin a continuing problem Nov/Dec-12 Aspergillus glaucus slows growth of toxin-producing molds, Nov/Dec-5

Bacterial protein extraction process (pat.), Nov/Dec-16 Baking quality of unbleached wheat flour (pat.), Mar-16

Bean rust, control with resistant varieties. Oct-15

Beans, improved by steam blanching, May-4 Beehives, solar heated, Feb-13 Bees

healthier through clean hives, May-4 wood preservers for hives, June/July-15 Beetle resistant to malathion, Mar-4 Biocontrol

bugs fight bugs, Feb-8 of Colorado potato beetle, Jan-4 of mosquitoes with microcrustaceans, Apr-4

research in a pilotless miniplane, Jan-8 for universal root pathogens (pat.), Jan-16

Blood

test for trichinosis (pat.), Aug-16 white cells collected from animals June/July-16

Blueberry disease test-DAPI, Mar-4 Bluetongue vaccine for sheep, cattle, June/July-10

Boll weevil trap improvements (pat.), Oct-16 Bran spaghetti, May-4 Brassinosteroids enhance crop growth (pat.),

Apr-16 Broiler house temperature regulation, May-15

Calcium means stronger pears and teeth, Aug-4

Carrot flavor affected by genetics and storage, Sept 4

Cell fusion of potatoes, Mar-6 Cercospora leaf spot disease advisories for peanut growers, June/July-8

Chalkbrood fungus reduced when bees clean hives quickly, May-4

Cheesemaking waste to commercial lactulose sugar (pat.), Jan-16 Chewing sounds of insects in grapefruit, wheat, Apr-13

Chisel plowing wind erosion control, Feb-7 Cholesterol reduced by barley, oats, Jan-10 Coccidiosis vaccine, major step toward,

Codling moth reproduction cycles, Apr-4

Computer

regulates poultry house, May-15 uses logic to help nonexperts, Aug-8 Computerized assay for folic acid, Apr-5 Conservation tillage, paired rows up yields, Apr-11

Copper: coronary heart disease link?, Oct-6 Corn earworms, fall armyworms controlled by Archytas marmoratus, Oct-12 Corn resistant to European cornborer, Feb-10

Cornstalks stronger now, Oct-4

fibers cleaned better (pat.), May-16 ginning more efficient in future, Sept-15 plant from Mexico drought-tolerant, Sept-5

Cottonseed, high-protein flour from (pat.),

Cows protected from mastitis by improved plastic loop, Aug-13

Coyote, attracting with synthetic scents (pat.), May-16

Crops used to remove emulsified oil from water (pat.), Sept-16

Crude vaccine for cattle grub control, Aug-5

Drone aircraft aids research in pecan orchards, Jan-8

Egg

cracks detected by staining, Jan-15 electronic, Jan-15

Enzymes

control plant hormones, Nov/Dec-4 turn beef tallow to cocoa butter. Nov/Dec-5

Erosion

prevented in Yazoo Basin by low-drop structures, Aug-14 research by National Soils Lab, Mar-8

Ethylene, flushing carrots with air to remove,

Expert systems, EXSRM, EXSPUR, Aug-8 Extrusion process halts breakdown of rice oil, Sept-14

Fats and oils extracted with CO2 (pat.),

Fenoxycarb protects stored grain, Oct-4 Fire ants prey on mosquitoes, Mar-5 Flowers preserved by aminooxyacetic acid (AOAA), Sept-4

Fluorescent stain for blueberry disease. Mar-4

Fly

little-known, for biocontrol of corn earworms, fall armyworms, Oct-12 sterile for screwworm control, Sept-12 Folic acid excess may lower zinc absorption in humans, Apr-5

Forage plant rids soil of sodium, Mar-5

Forum

ARS Helped Pioneer Biotechnology Research, Apr-2 Forage Legumes-Untapped Resource,

Feb-2 Hay Quality Is Mostly Opinion Without Tests. Sept-2

Here's to Excellence, Jan-2 Infant Mortality: One Result of a

Deficient Diet, Oct-2 New Way To Attack Complex Problems. Aug-2

Poultry and World Nutrition, May-2 Research Pays Its Way, Mar-2 Research To Save Lives, Nov/Dec-2

Values That Work, June/July-2 Fruit fly mass-production technique (pat.), June/July-16

Fungus

Entomophaga aulicae kills gypsy moths, June/July-12 kills nightshade, not tomatoes (pat.),

Sept-16

G

Gene sought in red flour beetle for pesticide resistance, Mar-4

Genetic engineers study crop growth control, Nov/Dec-4 Grain

dust trapped by soybean oil, Nov/Dec-6 key to reducing blood cholesterol, Jan-10

protection with insect growth regulator, Oct-4

Group size affects pigs' sexuality, Sept-11 Grubs, crude vaccine for cattle, Aug-5 Guard dogs get good grades, Jan-6 Gypsy moth-killing fungus from Japan, June/July-12

Hamburger, detecting potential spoilage by lactic acid (pat.), Oct-16 Heart disease risk factor, copper, Oct-6 Herbicide applicator, dripless, no-waste (pat.), Sept-16 Herbicide-coated seeds (pat.), Nov/Dec-16 Hessian fly, war against, May-10 High-protein rice flour from enzyme treatment, Mar-14 Hormones, wheat growth, Jan-7 Hydrochilling keeps meat fresh longer,

June/July-5

Insect

chewing sounds, Apr-13 rearing, Feb-8 sex pheromone mimics (pat.), Aug-16 Insecticides detected in honey, wax, and bees, May-5 Integrated reproduction management (IRM),

Apr-6

1985 INDEX

Ion channels in plant membranes, Nov/Dec-10 Irrigation water stretched by technology, Feb-14 Isotopes track copper, zinc, Oct-9

Lactic acid test for storage life of hamburger (pat.). Oct-16

Lactulose, underemployed sugar from whey, Jan-14

Lamb, leaner meat from Texel sheep, Nov/Dec-4

Latex, less sticky (pat.), Feb-16 Lettuce

early flowering speeds breeding, Mar-12 Winterset resistant to mosaic virus, Oct-4 Linolenic acid, soybean developed with less. Aug-4

Livestock births more timely and rewarding, Apr-6

Low-salt, pickled hot dogs last longer (pat.), May-16

Lubricant additives, substitute for sperm whale oil (pat.), June/July-16

Mastitis, protection from improved plastic loop, Aug-13

Methyl isothiocyanate, herbicide for dormant weed seed. Oct-10

Midwest melons tested against bacterial wilt, June/July-4

Mosaic virus, resistant lettuce varieties, Oct-4

Mosquito

larvae growth inhibitors (pat.), Oct-16 victim of fire ants, Mar-5

Mother's milk protects infants, Oct-5 Movable gene element found in soybeans, June/July-6

National Soils Laboratory, Mar-8 Near infrared reflectance spectroscopy (NIRS), Sept-6 Nematodes: the good, the bad, and the ugly,

Aug-10

NIRS, other uses of near infrared reflectance, Sept-10

Oahe, windbreak tree, Feb-5 Onions, spectrophotometry analysis of sugars, Mar-15

P

Paired rows up no-till grain yields, Apr-11 Papayas, hot water treatment for Mediterranean fruit fly, Feb-12 Peaches get head start in killed sod, May-14 Peanut growers advised when to spray, June/July-8

Pears, more calcium for stronger cell walls, Aug-4

Pesticide tests by immunoassay, June/July-14

Pheromone for grain weevils (pat.), Nov/Dec-16

Plant membrane protein tunnels, Nov/Dec-10 Polymer additives for lubricants (pat.), Mar-16

Potato nematode may be tricked, Aug-11 Potatoes, genetic challenges abound, Mar-6 Poultry

coccidiosis vaccine. Mar-13 semen extender, May-6 Propylene glycol to chill variety meats,

June/July-5 Psoralens: chemicals that sensitize skin to sunlight, Oct-5

R

Rabbit blood serum detects pesticides, June/July-14

Rat model links dietary sugar, diabetes. Sept-4

Rice

flour, chemically high protein (CHP), Mar-14 oil for food, Sept-14

Salinity, moisture measured by time-domain reflectometry, June/July-13 Salt

reducing amounts in food, Feb-6 Sordan grass cleanses soil, Mar-5 Sandblasting of wheat, sorghum by wind. Jan-5

Screwworm

fluorescent-marked sperm, Sept-12 stopped at the border and beyond, Sept-12

Seeds coated with herbicide EPTC (pat.), Nov/Dec-16

Selecting sex of livestock offspring, Aug-6 Sheep protected by guard dogs, Jan-6 Shellfish help control mosquitoes, Apr-4 Shipping fever? Try yeast, June/July-5 Sickle cell anemia cramps relieved, Jan-4 Soil

sampling (pat.), Feb-16 tester measures moisture and salinity. June/July-13

Solar-powered traveling irrigation system, Feb-14

Sovbean

developed for stable oil, Aug-4 oil traps dust in grain elevators, Nov/Dec-6

jumping gene found-glycine max, June/July-6

Spaghetti with added dietary fiber, May-4 Speedy genes enhance plant breeding. Mar-12

Sperm separation, X and Y chromosomes. Aug-6

Staining machine detects cracked eggs. Jan-15

Steam blanching improves canned beans, May-4

Strawberries, hairy leaves repel root weevils, June/July-4

Stream stairs save farmland, Aug-14 Sugar, rat model links with adult-onset diabetes, Sept-4

Sugarbeets improved through stress survival, Feb-4

Sumac: possible crop for industry, Aug-4 Sumpweed suspect in cattle abortions, Feb-4 Sunflower, spotted stem weevil, Jan-12 Swine, reproductive efficiency affected by group size, Sept-11

Temperature-adaptive textiles (pat.), Feb-16 Test for chloramphenicol (CAP) in milk,

Texel sheep, leaner lamb expected, Nov/Dec-4

Toxin-producing molds suppressed by Aspergillus glaucus, Nov/Dec-5 Trace minerals in plant roots, Oct-11 Turkey stud farms, May-6

Virus irradiated to make bluetongue vaccine, June/July-10

Vitamin B

computerized assay, Apr-5 excess may be harmful, Apr-5 Vitamin B-6 relieves sickle cell anemia cramps, Jan-4

Wasp controls Colorado potato beetle, Jan-4 Weed

control with rotary herbicide wiper, May-14

problems could be solved by "seedicide," Oct-10

Weevils cloud sunflower scene, Jan-12 Wheat

mystery of growth hormones, Jan-7 protein separation by flotation, Oct-14 resistance to Hessian fly, May-10 survives chisel plowing, Feb-7

Windbreak tree for the Great Plains-Oahe, Feb-5

Windstorms carry away plant cells, Jan-5 Winterfat-nutritious shrub, Jan-4 Wood preservatives for beehives, June/July-15

Y, Z

Yeast eases shipping stress in calves, June/July-5

Zinc uptake slowed in cold plant roots, Oct-11